

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An electric equipment for mounting on vehicles;
wherein

any ~~of~~ outer surface and surface exposed to ~~outward~~ ~~of~~ a magnetic core housing is coated sequentially with a metal plated layer, chromate film, and organic resin coating such that a finished assembly of plural components which include the magnetic core, has a rust prevention coating at an outer peripheral surface of the magnetic core or to an outer exposed portion thereof.

2. (Currently amended) An electric equipment for mounting on vehicles;
wherein

any ~~of~~ outer surface and surface exposed to ~~outward~~ ~~of~~ a magnetic core housing is coated sequentially with an alkali zinc plated layer, chromate film, and phenol group resin electrostatic coating such that a finished assembly of plural components which include the magnetic core, has a rust prevention coating of an outer peripheral surface at the magnetic core or to an outer exposed portion thereof.

3. (Currently amended) An electric equipment for mounting on vehicles; wherein

any of outer surface and surface exposed to ~~outward of~~ a magnetic core housing is coated sequentially with a metal plated layer, phosphate film, and organic resin coating such that a finished assembly of plural components which include the magnetic core, has a rust prevention coating at an outer peripheral surface of the magnetic core or to an outer exposed portion thereof.

4. (Currently amended) An electric equipment for mounting on vehicles; wherein

any of outer surface and surface exposed to ~~outward of~~ a magnetic core housing is coated sequentially with an alkali zinc plated layer, phosphate film, and phenol group resin electrostatic coating such that a finished assembly of plural components which include the magnetic core, has a rust prevention coating of an outer peripheral surface of the magnetic core or to an outer exposed portion thereof.

5. (Previously presented) An electric equipment for mounting on vehicles as claimed in claim 1; wherein

said metal plated layer is made of any one of Zn and Zn alloys, Ni and Ni alloys, and Sn and Sn alloys.

6. (Previously presented) An electric equipment for mounting on vehicles as claimed in claim 1; wherein

7. (Currently amended) An electric equipment for mounting on vehicles as claimed in claim 1; wherein

the equipment is made by a process of degreasing, a phosphoric acid treatment, and a an additional cleaning treatment are performed prior to coating with ~~any of said metal plated layer and said alkali-zinc plated layer.~~

8. (Currently amended) An electric equipment for mounting on vehicles as claimed in claim 1; wherein

the equipment is made by a process of a ultrasonic cleaning treatment and a diluted sulfuric acid treatment are performed sequentially after coating with ~~any of said metal plated layer and said alkali-zinc plated layer,~~ prior to ~~any one~~ of ~~said~~ a chromate film treatment and ~~said~~ a phosphoric acid treatment.

9. (Previously presented) An electric equipment for mounting on vehicles as claimed in claim 1; wherein

the additive amount of chromium by the chromate treatment is desirably in the range of 10-100 mg/m².

10. (Currently amended) An electric equipment for mounting on vehicles as claimed in claim 1; wherein

~~the additive amount of paint by~~ the organic resin coating is a paint added in an amount in the range of 50-200 mg/m².

11. (Previously presented) A rotary electric machines comprising:

a cylindrical yoke, wherein a magnetic field device is fixed onto inner circumferential plane,

a front bracket and a rear bracket, each of which is provided respectively at one end and the other end of said yoke in the axial direction, and

a rotor, wherein

said yoke is composed of the electrical equipment for mounting on vehicles as claimed in claim 1.

12. (Previously presented) An electromagnetic switch comprising:

a cylindrical yoke, wherein a cylindrical magnetic field device is fixed at inner circumferential plane, a plunger provided at one end in the axial direction of the yoke, which is movable in the magnetic field device in the axial direction, and

a magnetic core provided at another end of the yoke facing to the plunger; wherein

said yoke is composed of the electrical equipment for mounting on vehicles as claimed in claim 1.

13. (Currently amended) A method of making a rotary electric machine ~~as claimed in claim 11~~, comprising a cylindrical yoke, wherein a magnetic field device is fixed onto inner circumferential plane,

a front bracket and a rear bracket, each of which is provided respectively at one end and the other end of said yoke in the axial direction, and

a rotor, wherein

said yoke is composed of the electrical equipment for mounting on vehicles and wherein said yoke single member before assembling is coated with any one of said metal plated layer, alkali zinc plated layer, chromate film, and phosphoric acid anodic oxide film; and

said yoke after assembling with said magnetic field device by fixing is coated with any of said organic coating and phenol group electrostatic coating.

14. (Previously presented) A rotary electric machine as claimed in claim 11, wherein

said yoke is made of mild steel composed of C equal to or less than 0.12%, Si equal to or less than 0.35, Mn equal to or less than 0.60%, and the residual is substantially Fe, respectively by weight.

15. (Currently amended) ~~An~~ A method of making an electromagnetic switch ~~as claimed in claim 12~~ comprising:

a cylindrical yoke, wherein a cylindrical magnetic field device is fixed at inner circumferential plane, a plunger provided at one end in the axial direction of the yoke, which is movable in the magnetic field device in the axial direction, and

a magnetic core provided at another end of the yoke facing to the plunger;
wherein

said yoke is composed of the electrical equipment for mounting on vehicles, and wherein said yoke single member before assembling is coated with any one of said metal plated layer, alkali zinc plated layer, chromate film, and phosphoric acid anodic oxide film; and

said yoke after assembling with said magnetic field device by fixing is coated with any of said organic coating and phenol group electrostatic coating.

16. (Previously presented) An electromagnetic switch as claimed in claim 12, wherein

said yoke is made of mild steel composed of C equal to or less than 0.10%, Mn equal to or less than 0.60%, and the residual is substantially Fe, respectively by weight.

17. (Previously presented) A starter for internal combustion engine composed of:

a rotary electric machine a cylindrical yoke, wherein a magnetic field device is fixed onto inner circumferential plane,

a front bracket and a rear bracket, each of which is provided respectively at one end and the other end of said yoke in the axial direction, and

a rotor, wherein

said yoke is composed of the electrical equipment for mounting on vehicles, and any of outer surface and surface exposed to outward of magnetic core housing is coated sequentially with a metal plated layer, chromate film, and organic resin coating; and

an electromagnetic switch as claimed in claim 12.

18. – 23. (Cancelled)

24. (Previously presented) An electric equipment for mounting on vehicles as claimed in claim 3; wherein

said metal plated layer is made of any one of Zn and Zn alloys, Ni and Ni alloys, and Sn and Sn alloys.

25. (Previously presented) An electric equipment for mounting on vehicles as claimed in claim 3; wherein

said organic resin coating is made of any one of epoxy resin, phenol resin, acrylic resin, polyester resin, styrene resin, polyethylene resin, and polyurethane resin.

26. (Previously presented) An electric equipment for mounting on vehicles as claimed in claim 3; wherein

degreasing, a phosphoric acid treatment, and a cleaning treatment are performed prior to coating with any of said metal plated layer and said alkali zinc plated layer.

27. (Previously presented) An electric equipment for mounting on vehicles as claimed in claim 3; wherein

a ultrasonic cleaning treatment and a diluted sulfuric acid treatment are performed sequentially after coating with any of said metal plated layer and said alkali zinc plated layer, prior to any of said chromate treatment and said phosphoric acid treatment.

28. (Previously presented) An electric equipment for mounting on vehicles as claimed in claim 2; wherein

the additive amount of chromium by the chromate treatment is desirably in the range of 10-100 mg/m².

29. (Previously presented) An electric equipment for mounting on vehicles as claimed in claim 3; wherein

the additive amount of paint by the organic coating is in the range of 50-200 mg/m².

30. – 35. (Cancelled)